

BEST AVAILABLE COPY

AUTO/0334

AMENDMENTS TO THE CLAIMS

The listing of claims below will replace all prior versions and listings of claims in the application. Please amend the claims as follows:

1. (Currently Amended) A method of executing an operation on a set of graphical components, the method comprising the computer-implemented steps of:
detecting in a computer-aided design software environment that a statement contains
an operation identifier that specifies said operation,
pattern matching criteria, and
an attribute identifier that identifies an attribute; and
executing said statement by
identifying said set of graphical components associated with identifiers that
satisfy said pattern matching criteria, and
performing said operation on said attribute of each graphical component in said
set of graphical components that satisfy said pattern matching criteria,
altering state information corresponding to each graphical component in
said set of graphical components to generate a frame within an animation.
2. (Original) The method of Claim 1, wherein said statement includes a first string of
characters that contains at least one wild card character and that specifies said pattern
matching criteria.

AUTO/0034

3. (Original) The method of Claim 2, wherein said first string is part of a second string of characters, wherein said second string of characters includes said attribute identifier and is in a format that conforms to object-dot notation.
4. (Withdrawn) The method of Claim 1, wherein the step of identifying includes identifying a set of graphical components associated with identifiers that satisfy said pattern matching criteria, and said step of performing includes performing said operation on said attribute of each graphical component in said set of graphical components.
5. (Original) The method of Claim 1, wherein said statement is written in a scripting language and the step of detecting is performed by a script processor.
6. (Withdrawn) The method of Claim 5, wherein the script processor is part of a CAD system and the step of identifying is performed by identifying the set of graphical components within said CAD system that are associated with an identifier that matches said pattern matching criteria.
7. (Original) The method of Claim 1, wherein step of detecting that a statement contains pattern matching criteria includes detecting that the statement contains pattern matching criteria for a hierarchical identifier.

AUTO/0034

8. (Currently Amended) A method of executing an operation on collections of graphical components, the method comprising the computer-implemented steps of:
- detecting in a computer-aided design software environment that a statement contains
- an operation identifier that specifies said operation,
- an identifier that is associated with a collection of graphical components, and
- an attribute identifier that identifies an attribute of a member graphical component of said collection of graphical components; and
- executing said statement by
- identifying member graphical components of said collection of graphical components, and
- performing said operation on said attribute of each graphical component of said identified member graphical components, altering state information corresponding to each graphical component of said identified member graphical components to generate a frame within an animation.
9. (Previously Presented) The method of Claim 8, wherein said collection of graphical components is an array.
10. (Currently Amended) The method of Claim 8, wherein said collection of graphical components includes all instances of a native type of graphical components ~~managed by a CAD system.~~
11. (Original) The method of Claim 10, wherein said native type is a map type of graphical components, wherein a map type defines a surface.

AUTQ 0034

12. (Currently Amended) A computer-readable medium carrying one or more sequences of one or more instructions for executing an operation on a set of graphical components, the one or more sequences of one or more instructions including instructions which, when executed by one or more processors, cause the one or more processors to perform the steps of:

detecting in a computer-aided design software environment that a statement contains

an operation identifier that specifies said operation,

pattern matching criteria, and

an attribute identifier that identifies an attribute; and

executing said statement by

identifying all graphical components associated with identifiers that satisfy said

pattern matching criteria, and

performing said operation on said attribute of each of said graphical components

that satisfy said pattern matching criteria, altering state information

corresponding to each graphical component in said set of graphical

components to generate a frame within an animation.

13. (Original) The computer-readable medium of Claim 12, wherein said statement includes a first string of characters that contains at least one wild card character and that specifies said pattern matching criteria.

AUTOC/0034

14. (Original) The computer-readable medium of Claim 13, wherein said first string is part of a second string of characters, wherein said second string of characters includes said attribute identifier and is in a format that conforms to object-dot notation.
15. (Withdrawn) The computer-readable medium of Claim 12, wherein the step of identifying includes identifying a set of graphical components associated with identifiers that satisfy said pattern matching criteria, and said step of performing includes performing said operation on said attribute of each graphical component in said set of graphical components.
16. (Original) The computer-readable medium of Claim 12, said statement is written in a scripting language and the step of detecting is performed by a script processor.
17. (Withdrawn) The computer-readable medium of Claim 16, wherein the script processor is part of a CAD system and the step of identifying is performed by identifying graphical components within said CAD system that are associated with an identifier that matches said pattern matching criteria.
18. (Currently Amended) A computer-readable medium carrying one or more sequences of one or more instructions for executing an operation on collections of graphical components, the one or more sequences of one or more instructions including instructions which, when executed by one or more processors, cause the one or more processors to perform the steps of:

detecting in a computer-aided design software environment that a statement contains

AUTO/0034

an operation identifier that specifies said operation,
an identifier that is associated with a collection of graphical components, and
an attribute identifier that identifies an attribute of a member object of said
collection of graphical components; and
executing said statement by
identifying member graphical components of said collection of graphical
components, and
performing said operation on said attribute of each graphical component of said
identified member graphical components, altering state information
corresponding to each graphical component of said identified member
graphical components to generate a frame within an animation.

19. (Previously Presented) The computer-readable medium of Claim 18, wherein said collection of graphical components is an array.
20. (Currently Amended) The computer-readable medium of Claim 18, wherein said collection of graphical components includes all instances of a native type of graphical components ~~managed by a CAD system.~~
21. (Previously Presented) The method of claim 1, further comprising the step of changing the value of another attribute, the other attributes not associated with the identifiers that satisfy said pattern matching criteria.

AUTO 0034

22. (Previously Presented) The method of claim 8, further comprising the step of changing the value of another attribute, the other attribute not associated with the attribute identifier.